STATISTICAL THEORY AND METHOD ABSTRACTS

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STATISTICAL THEORY AND METHOD ABSTRACTS

COVERAGE OF JOURNAL

THE aim of this journal is to give complete coverage of papers with contributions to the theory and method of mathematical statistics, theory of probability and immediately related subjects.

To this end journals of all parts of the world are scanned for possible papers to be represented and in the case of the following journals, that are largely devoted to statistical theory, the abstracting of papers is done on a complete or virtually complete basis:

Advances in Applied Probability
Annals of Mathematical Statistics
Annals of the Institute of Statistical Mathematics
Biometrics
Biometrika
Bulletin of Mathematical Statistics
Journal of Applied Probability
Journal of the Indian Statistical Association
Journal of the Royal Statistical Society (Series B)
Metrika
Metron
Sankhyā (Series A)
South African Statistical Journal
Technometrics
Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete

In addition to the ordinary journals, there are other kinds of publication which fall within the scope of this journal of abstracts. They are experiment and other research station reports and relevant individual papers in the reports of conferences, symposia and seminars as well as commemorative volumes. Abstracts of the former type of paper will be limited to those of which it is reasonably sure the user can obtain reprints.

ARRANGEMENT OF ABSTRACTS

All abstracts are in the English language. The language of the original paper is indicated. In addition to volume and page numbers of the relevant journal, the numbers of references, tables and figures are stated. Also given is the author's address, if available. This may facilitate contact for discussing the contents of the paper or to request an offprint.

Each issue contains an author index; these are combined to an annual index in this index supplement.

The abstracts are classified according to the 12 main sections of the Classification Scheme, given on pages v and vi, and are printed on coloured paper, each colour corresponding to a main section. Within each main section the abstracts are arranged in alphabetical order. The abstracts bear a primary classification number, indicating the main section and the subsection according to the Classification Scheme. For the most important cross references, secondary classification numbers have been added in brackets.

Each issue contains an Analysis of Secondary Classifications with a listing of all abstracts, arranged in the order of their secondary number. The combined analysis is also published in this supplement.

The format and simple binding allows for the following alternative treatments by users of the journal:

(*a*) Leave intact as a shelf-periodical.
(*b*) Split for filing in page form according to the main sections of the classification.
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(i) using in a card-index,
(ii) filing in loose leaf or other binders for which the appropriate holes are punched: binding cases are available from the publishers.

STATISTICAL ALGORITHMS

Starting with Volume 10, an index of published algorithms of statistical interest is provided. It will cover all relevant algorithms published from 1960 onwards. In the complete list for this Volume, as published in this supplement, the algorithms are arranged in the order of classification number and are identified by their title and reference number.

SCHEME FOR CLASSIFICATION OF ABSTRACTS

0. Mathematical Methods (White)
   0. General papers
   1. Solution of equations
   2. Methods of curve and surface fitting; smoothing
   3. Interpolation and quadrature
   4. Special functions and transforms
   5. Functional relationships
   6. Determinantal and matrix analysis
   7. Game theory
   8. Programming techniques
   9. Group and field theory
   10. Graph theory and combinatorial analysis
   11. Measure theory
   12. Optimisation

1. Probability (Pink)
   0. General papers
   1. Calculus of probabilities
   2. Expected values
   3. Combinatorial problems
   4. Geometric probability
   5. Limit theorems
   6. Stochastic convergence
   7. Stochastic approximation
   8. Decision theory and functions
   9. Transforms: Fourier, Laplace, etc.
   10. Convolutions
   11.
   12.

2. Frequency Distributions (Green)
   0. General papers
   1. Descriptive properties
   2. Transformations of variates
   3. Normal and lognormal
   4. Binomial, multinomial and hypergeometric
   5. Poisson, exponential, negative binomial, logarithmic and contagious
   6. Rectangular, extreme value and Weibull
   7. Pearson and " series expansion " distributions
   8. Truncated and mixed distributions
   9. Multivariate distributions
   10. Limit distributions
   11. Approximations
   12. Other distributions

3. Sampling Distributions (Light Blue)
   0. General papers
   1. t, z, F and χ^2 distributions
   2. Non-central distributions
   3. Studentisation
   4. Quadratic forms
   5. Correlation and regression coefficients
   6. Location and scale statistics
   7. Shape and other descriptive statistics
   8. Order statistics
   9. Multivariate problems
   10. Limit distributions
   11. Linear forms
   12.

4. Estimation (Yellow)
   0. General papers
   1. Properties of estimators
   2. Types of estimator: Bayes, maximum likelihood, least squares, etc.
   3. Individual estimators: point
   4. Individual estimators: interval
   5. Inequalities; tolerance limits and regions
   6. Distribution-free methods
   7. Sequential methods
   8. Multivariate problems
   9. Finite population procedures—surveys
   10. Simultaneous estimation
   11. Distribution functions and densities
   12. Decision theory

5. Hypothesis Testing (Purple)
   0. General papers
   1. Properties of test
   2. Individual hypotheses
   3. Two-sample problem
   4. k-sample problem
   5. Outliers
   6. Distribution-free tests
   7. Sequential tests
   8. Multivariate problems
   9. Types of test: likelihood ratio, Bayes, minimax, etc.
   10. Goodness-of-fit tests
   11. Combining and comparing tests
   12. Decision theory

6. Relationships (Grey)
   0. General papers
   1. Regression; linear hypothesis, polynomials
   2. Correlation inc. canonical correlation
   3. Factor methods and principal components
   4. Discriminant analysis and cluster analysis
   5. Ranking and scaling methods
   6. Systems of equations: structure
   7. Non-linear equations—logistic
   8. Transformed relationships—quantal reponse
   9. Association and contingency
   10. Functional relationships
   11. Non-standard conditions
   12. Other multivariate methods

7. Variance Analysis (Biscuit)
   0. General papers
   1. Fixed effects model
   2. Variance components model
   3. Mixed and other models
   4. Non-orthogonal data and missing values
   5. Non-standard conditions—failure of assumptions
   6. Covariance analysis
   7. Multiple comparisons; multiple decision procedures
   8. Ranked data
   9. Sequential methods inc. preliminary tests
   10. Combining sets of results
   11. Precision of measurement
   12. Multivariate models

8. Sampling Design (Orange)
   0. General papers
   1. Simple random; stratified; multi-stage
   2. Sampling with unequal probability
   3. Multi-phase sampling; double sampling
   4. Natural (human, animal and biological) populations
   5. Non-sampling problems
   6. Censored, systematic and quota sampling
   7. Nature and number of units; cost and efficiency
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   10.
   11.
   12.

9. Design of Experiments (Blue)
   0. General papers
   1. Block designs; designs for two-way elimination of heterogeneity
   2. Factorial arrangements
   3. Response surfaces
   4. Nature of unit; number of replications; cost and efficiency
   5. Paired comparisons and matching problems
   6. Preference tests
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   8. Weighing problems
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   10. Systematic designs
   11. Screening tests
   12. Other designs, *e.g.* mixtures

10. Stochastic Processes and Time Series (Red)
   0. General papers
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   2. Estimation problems
   3. Tests of hypotheses
   4. Queueing, storage, risk and congestion theory
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   10. Renewal theory
   11. Markov processes
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   0. General statistical methodology
   1. Statistical tables and charts
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ANALYSIS OF SECONDARY CLASSIFICATIONS

In this index all abstracts appearing in this Volume are listed according to their secondary classification—given in braces at the top of each abstract—if there is any. Abstracts are indicated by their primary classification number (bold) and serial number.

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0.0	**0.8**, 406
0.1	**10.8**, 750; **10.9**, 1022; **10.6**, 1376
0.2	**10.0**, 667; **11.3**, 776; **6.1**, 1272; **9.3**, 1354; **10.6**, 1363
0.3	**2.1**, 866
0.4	**1.0**, 418; **0.3**, 803; **2.12**, 863; **10.0**, 1049; **3.4**, 1174; **10.4**, 1392
0.6	**3.4**, 85; **6.2**, 192; **10.0**, 325; **10.9**, 353; **1.9**, 434; **6.2**, 603; **1.7**, 842; **2.10**, 847; **2.10**, 858; **4.3**, 898; **6.1**, 942; **10.0**, 1032; **2.9**, 1148; **6.2**, 1271
0.7	**1.3**, 47; **1.8**, 412; **1.8**, 435; **10.0**, 663; **5.12**, 907
0.8	**11.10**, 778; **11.9**, 793; **0.7**, 800; **4.8**, 894
0.10	**6.4**, 183; **9.1**, 246; **9.1**, 253; **6.4**, 594; **9.1**, 974; **0.8**, 1113; **10.1**, 1393
0.11	**1.0**, 428; **4.11**, 511; **10.0**, 693; **10.5**, 1382
0.12	**6.4**, 194; **6.4**, 198; **10.0**, 343; **10.0**, 344; **10.0**, 345; **0.7**, 405; **4.7**, 512; **10.5**, 681; **11.10**, 795; **0.2**, 808; **6.4**, 945; **6.4**, 1316; **10.9**, 1378; **10.9**, 1379
1.0	**0.11**, 12; **0.2**, 13; **11.0**, 374; **0.7**, 404; **1.1**, 420; **4.5**, 517; **10.0**, 731; **11.0**, 771; **11.0**, 777; **11.9**, 782; **0.12**, 807; **10.1**, 1014; **10.0**, 1042; **10.11**, 1048; **10.0**, 1400; **11.12**, 1445
1.1	**2.4**, 68; **0.7**, 395; **0.7**, 400; **1.3**, 827; **2.3**, 853; **2.12**, 1159; **4.3**, 1216
1.2	**1.9**, 46; **2.11**, 63; **2.8**, 74; **2.8**, 75; **11.11**, 370; **1.3**, 430; **10.1**, 685; **2.5**, 1155; **10.11**, 1395
1.3	**4.3**, 113; **1.2**, 439; **1.5**, 833; **11.5**, 1080; **0.10**, 1104; **6.5**, 1293; **11.7**, 1447
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1.5	**10.12**, 271; **0.11**, 403; **10.11**, 664; **10.10**, 706; **10.0**, 724; **11.11**, 773; **1.0**, 844; **10.1**, 991; **10.0**, 1028; **10.6**, 1050; **10.12**, 1052; **10.10**, 1065; **0.10**, 1105; **1.3**, 1126; **10.4**, 1426
1.6	**1.3**, 26; **1.0**, 54; **10.1**, 305; **10.12**, 360; **10.5**, 999; **10.1**, 1008; **1.0**, 1141; **10.6**, 1409
1.8	**0.12**, 393; **0.7**, 1098
1.9	**10.6**, 304; **1.10**, 421; **2.3**, 473; **2.3**, 474; **2.3**, 475; **10.4**, 691; **10.4**, 699; **10.6**, 703; **2.10**, 861; **2.8**, 862; **2.8**, 864; **10.11**, 1017; **10.0**, 1057; **1.6**, 1124
1.10	**1.5**, 423; **1.5**, 440; **1.0**, 452; **1.9**, 841; **0.11**, 1116; **4.3**, 1223
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3.11	**3.2**, 90; **1.9**, 449
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4.1	**2.6**, 61; **4.3**, 141; **4.4**, 142; **6.1**, 200; **10.11**, 274; **11.11**, 380; **2.4**, 469; **4.2**, 533; **4.5**, 1188; **4.3**, 1221; **6.1**, 1308; **6.1**, 1312; **6.1**, 1313
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4.6	**4.12**, 106; **6.2**, 588; **6.5**, 622; **5.3**, 1251
4.7	**4.4**, 144; **9.3**, 263; **1.8**, 829; **10.2**, 1062; **9.7**, 1361
4.8	**4.4**, 120; **4.5**, 1194; **4.11**, 1200; **6.1**, 1276
4.9	**1.2**, 43; **8.2**, 225; **8.7**, 232; **8.2**, 239, **8.5**, 240; **4.3**, 515; **4.2**, 523; **4.4**, 526; **4.3**, 527; **4.1**, 529; **4.1**, 887; **8.0**, 969; **1.2**, 1133; **8.0**, 1329; **8.1**, 1331; **8.0**, 1338
4.10	**2.9**, 65; **6.6**, 1298
4.11	**2.9**, 77; **11.11**, 381; **3.8**, 1180
4.12	**11.0**, 386; **6.5**, 593; **4.7**, 906; **1.8**, 1125
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5.1	**5.6**, 160; **5.10**, 171; **5.8**, 558; **7.1**, 951; **7.6**, 961; **5.8**, 1263
5.2	**2.2**, 66; **6.9**, 202; **6.9**, 585; **6.1**, 615; **3.8**, 1165
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6.3	**6.1**, 1278
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6.6	**6.0**, 617
6.7	**4.3**, 110; **6.6**, 179; **6.1**, 206; **4.2**, 514; **4.2**, 1205
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6.11	**8.5**, 233
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7.0	**5.2**, 158; **5.0**, 170; **6.1**, 209; **5.2**, 566
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7.8	**4.8**, 117; **7.7**, 212
7.9	**7.7**, 956; **9.7**, 982
7.11	**1.7**, 1134
7.12	**4.8**, 132; **3.2**, 484; **3.9**, 494
8.0	**1.0**, 425; **4.9**, 896; **9.0**, 986; **4.9**, 1187; **4.9**, 1220
8.1	**7.1**, 218; **8.0**, 230; **8.7**, 231; **4.9**, 532; **4.2**, 542; **8.7**, 639; **4.9**, 902; **10.6**, 992; **10.1**, 1031; **11.11**, 1092; **8.2**, 1337
8.3	**5.2**, 1252; **8.0**, 1326; **8.1**, 1345
8.4	**8.7**, 971
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8.7	**8.2**, 966; **8.2**, 1332
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NEW STATISTICAL TABLES

This index contains a listing of all those abstracts in this volume concerning papers that contain new statistical tables. Tables presenting data or results of an investigation or illustrations of a new method are not considered.

If the primary purpose of the paper is to present a new table, the abstract will in general be accordingly classified under **11.1.** Papers which contain a new statistical table but with main purpose to present a new theory or method of testing, e.g. are classified under the relevant code, with 11.1 as secondary classification or even a different one. Since there always remains some ambiguity in assigning the primary and secondary classification number this index gives a complete list of all such papers, including those classified under 11.1.

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Krishnan	**11**/1171	**3.2**	Moments of doubly non-central t
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Mann & Saunders	**11**/1087	**11.11**	Warrantly assurance when life has Weibull distribution
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Boyd	**11**/1437	**11.1**	Student's t
Mann	**11**/1446	**11.11**	Reliability lower bounds

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Acta Math. Acad. Sci. Hung.	Acta Mathematica Academiae Scientiarium Hungaricae	Hungary
Advances Appl. Prob.	Advances in Applied Probability	Great Britain
Allg. Statist. Arch.	Allgemeines Statistisches Archiv	Germany
Ann. Inst. Henri Poincaré	Annales de l'Institut Henri Poincaré	France
Ann. Inst. Statist. Math., Tokyo	Annals of the Institute of Statistical Mathematics	Japan
Ann. Math Statist.	Annals of Mathematical Statistics	USA
VII Ann. Meeting Yugoslavian Statist. Soc., Zagreb	VII Annual Meeting of the Yugoslavian Statistical Society, Zagreb	Yugoslavia
Appl. Statist.	Applied Statistics	Great Britain
Arch. Rational Mech. Anal.	Archive for Rational Mechanics and Analysis	Germany
ARL Tech. Rep.	Aerospace Research Laboratories, Technical Reports of	USA
Atti Accad. Naz. Lincei, Rend. Cl. Sci. Fis. Mat. Nat.	Atti della Accademia Nazionale dei Lincei, Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali	Italy
Atti. Riun. Sci., Soc. Ital. Statist.	Atti della Riunione Scientifica, Società Italiana di Statistica, Roma	Italy
Aust. J. Statist.	Australian Journal of Statistics	Australia
Biometrics	Biometrics	USA
Biometrika	Biometrika	Great Britain
Biom. Prax.	Biométrie-Praximétrie	Belgium
Biom. Zeit.	Biometrische Zeitschrift	Germany
Blä. Dtsch. Ges. Versich.-math.	Blätter der Deutschen Gesellschaft für Versicherungsmathematik	Germany
Brit. J. Math. Statist. Psychol.	British Journal of Mathematical and Statistical Psychology	Great Britain
Brit. J. Phil. Sci.	British Journal for the Philosophy of Science	Great Britain
Brit. Med. Bull.	British Medical Bulletin	Great Britain
Bull. Calcutta Statist. Ass.	Bulletin, Calcutta Statistical Association	India
Bull. Int. Statist. Inst.	Bulletin of the International Statistical Institute	
Bull. Math. Soc., Nanyang Univ.	Bulletin of Mathematical Society, Nanyang University	Singapore
Bull. Soc. Math. Belg.	Bulletin de la Société Mathématique de Belgique, Gembloux	Belgium
Cahiers Centre Etudes Rech. Opérat.	Cahiers du Centre d'Etudes de Recherche Opérationnelle	Belgium
Canad. Math. Bull.	Canadian Mathematical Bulletin	Canada
The Commerce	The Commerce	Singapore
Compos. Math., Groningen	Compositio Mathematica, Groningen	Netherlands
Computer J.	The Computer Journal	Great Britain
Computing	Computing	Austria
Dept. Forest Biom., Stockholm Res. Notes	Department of Forest Biometry, Stockholm Research Notes	Sweden
Econ. Cien. Soc.	Economia y Ciencias Sociales	Venezuela
Econometrica	Econometrica	USA
Estadística	Estadística	USA
FOA Rep., Stockholm	Förvarets Forskningsanstalt Reports	Sweden
G. Ist. Ital. Attuari	Giornale dell'Istituto Italiano degli Attuari	Italy
IEEE Trans. Inf. Theory	IEEE Transactions on Information Theory	USA
IEEE Trans. Rel.	IEEE Transactions on Reliability	USA
IEEE Trans. Systems Sci. Cybernetics	IEEE Transactions on Systems Science and Cybernetics	USA
Information and Control	Information and Control	USA

Information Storage and Retrieval	Information Storage and Retrieval	Great Britain
Int. J. Computer Math.	International Journal of Computer Mathematics	Great Britain
Int. J. Control	International Journal of Control	Great Britain
Jber. Dtsch. Mathver.	Jahresbericht der Deutschen Mathematikervereinigung	Germany
Jb. Nat. Ökon. Statist.	Jahrbücher für Nationalökonomie und Statistik	Germany
J. Agric. Sci.	Journal of Agricultural Science	Great Britain
J. Amer. Statist. Ass.	Journal of the American Statistical Association	USA
J. Animal Ecol.	Journal of Animal Ecology	USA
J. Appl. Prob.	Journal of Applied Probability	Great Britain
J. Comb. Theory	Journal of Combinatorial Theory	USA
J. Documentation	Journal of Documentation	Great Britain
J. Ecol.	Journal of Ecology	Great Britain
J. Indian Soc. Agric. Statist.	Journal of the Indian Society of Agricultural Statistics	India
J. Indian Statist. Ass.	Journal of the Indian Statistical Association	India
J. Indust. Econ.	Journal of Industrial Economics	Great Britain
J. Inst. Actuar.	Journal of the Institute of Actuaries	Great Britain
J. Karnatak Univ. Sci.	Journal of the Karnatak University Science	India
J. London Math. Soc.	The Journal of the London Mathematical Society	Great Britain
J. Math. Psychol.	Journal of Mathematical Psychology	Great Britain
J. reine angew. Math.	Journal für reine und angewandte Mathematik	Germany
J. Res., Nat. Bur. Stand.	Journal of Research of the National Bureau of Standards	USA
J. R. Statist. Soc.	Journal of the Royal Statistical Society	Great Britain
J. Sci. Food. Agric.	Journal of the Science of Food and Agriculture	Great Britain
J. Theoret. Biol.	Journal of Theoretical Biology	Great Britain
Kovové Materiály	Kovové Materiály	Czechoslovakia
Magy. Tud. Akad. III. Oszt. Közl.	Magyar Tudományos Akademia Matematikai és Fizikai	Hungary
Math. Ann.	Mathematische Annalen	Germany
Math. Centre Tracts	Mathematical Centre Tracts	Netherlands
Math. Gaz.	Mathematical Gazette	Great Britain
Math. Nachr.	Mathematische Nachrichten	Germany
Math. Zeit.	Mathematische Zeitschrift	Germany
Metrika	Metrika	Germany
Metron	Metron	Italy
Nanta Math.	Nanta Mathematica	Singapore
Nature	Nature	Great Britain
Naval Res. Logist. Quart.	Naval Research Logistics Quarterly	USA
New J. Statist. Operat. Res.	The New Journal of Statistics and Operational Research	Great Britain
Normalizace	Normalizace	Czechoslovakia
Operat.-forschung Math. Statist.	Operationsforschung und Mathematische Statistik	Germany
Operat. Res.	Operations Research	USA
Operat. Res. Quart.	Operational Research Quarterly	Great Britain
Oxford Econ. Papers	Oxford Economic Papers	Great Britain
Phil. Trans. Royal Soc. London	Philosophical Transactions of the Royal Society of London	Great Britain
Population Studies	Population Studies	Great Britain
Proc. 5th Berkeley Symp. Math. Statist. Prob.	Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability	USA
Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society	Great Britain
Proc. Inst. Statist. Math., Tokyo	Proceedings of the Institue of Statistical Mathematics	Japan
Proc. Int. Symp. Classical and Contagious Discrete Distributions, Montreal	Proceedings of the International Symposium on Classical and Contagious Discrete Distributions, Montreal (1965). Ed. G. P. Patil, Statistical Publishing Society, Calcutta-35, India	India
Proc. London Math. Soc.	Proceedings of the London Mathematical Society	Great Britain
Proc. 1965 Reservoir Yield Symp., Oxford	Proceedings of the 1965 Reservoir Yield Symposium, Oxford	Great Britain
Proc. Roy. Soc.	Proceedings of the Royal Society	Great Britain
Publ. Inst. Statist., Paris	Publications de l'Institut de Statistique de l'Université de Paris	France

Quart. Appl. Math.	Quarterly of Applied Mathematics	USA
Rev. Belge Statist. Rech. Opérat.	Revue Belge de Statistique et de Recherche Opérationnelle	Belgium
Rev. Brasileira Estatíst.	Revista Brasileira de Estatística	Brazil
Rev. Econ. Stud.	Review of Economic Studies	Great Britain
Rev. Int. Statist. Inst.	Review of the International Statistical Institute	Netherlands
Rev. Statist. Appl.	Revue de Statistique Appliquée	France
S. Afric. Statist. J.	South African Statistical Journal	South Africa
Sankhyā	Sankhyā	India
SIAM J. Appl. Math.	SIAM Journal on Applied Mathematics	USA
SIAM Rev.	SIAM Review	USA
Sitzungsber. Bayer. Akad. Wiss.	Sitzungsberichte der Cayerischen Akademie der Wissenschaften	Germany
Skand. Aktuarietidskr.	Skandinavisk Aktuarietidskrift	Sweden
Special Rep. WISK 61, Nat. Res. Inst. Math. Sci., CSIR, Pretoria	Special Report WISK 61, National Research Institute of Mathematical Science, CSIR, Pretoria	South Africa
Statist. Hefte	Statistische Hefte	Germany
Statistician	Statistician	Great Britain
Statist. Neerlandica	Statistica Neerlandica	Netherlands
Statist. News	Statistical News	Great Britain
Statist. Rev., Belgrade	Statistička Revija	Yugoslavia
Strojnický Časopis	Strojnický Časopis	Czechoslovakia
Studia Sci. Math. Hung.	Studia Scientiarum Mathematicarum Hungarica	Hungary
Synthese	Synthese	Netherlands
Technometrics	Technometrics	USA
Theory Prob. Appl.	Theory of Probability and its Applications	USA
Trab. Estadíst.	Trabajos de Estadística y Investigación Operativa	Spain
Trans. Faraday Soc.	Transactions of the Faraday Society	Great Britain
Transportation Res.	Transportation Research	Great Britain
Trans. 4th Prague Conf. Inf. Theory	Transactions of the Fourth Prague Conference on Information Theory	Czechoslovakia
Univ. Mysore J.	University of Mysore Journal	India
Unternehmensforschung	Unternehmensforschung	Germany
Wiss. Zeit. Humboldt Univ., Berlin	Wissenschaftliche Zeitschrift der Humboldt-Universität, Berlin	Germany
Wiss. Zeit. Tech. Univ., Dresden	Wissenschaftliche Zeitschrift Technische Universität, Dresden	Germany
Zeit. angew. Math. Mech.	Zeitschrift für angewandte Mathematik und Mechanik	Germany
Zeit. ges. Staatswiss.	Zeitschrift für die gesamte Staatswissenschaften	Germany
Zeit. Wahrscheinlichkeitsth.	Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete	Germany

BIBLIOGRAPHIC PAPERS

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Goodman	**11**/300	**10.9**	28
Kimura	**11**/315	**10.9**	58
Lancaster	**11**/318	**10.9**	23
Plackett	**11**/334	**10.0**	30
Seneta	**11**/347	**10.1**	56
Wetzel	**11**/362	**10.6**	51
Williams	**11**/363	**10.9**	37
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Kubitschek	**11**/716	**10.9**	24
Lampard	**11**/718	**10.1**	23
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Beutler & Leneman	**11**/992	**10.6**	21
Brillinger & Hatanaka	**11**/994	**10.8**	22
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Kiefer	**11**/1028	**10.0**	21
Orcutt & Winokur	**11**/1044	**10.2**	24
Pike	**11**/1048	**10.11**	50
Brillinger	**11**/1373	**10.6**	34
Brillinger	**11**/1374	**10.6**	31
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11. Miscellaneous and Special Topics

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STATISTICAL ALGORITHMS

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2 45/**11** to 64/**11**
3 65/**11** to 88/**11**
4 89/**11** to 115/**11**

The index below contains a listing of all statistical algorithms published in Volume Eleven, in the order of their classification number. Entries are given by title and identified by their reference number by means of which the reader is referred to the algorithms list in the relevant issue. When a title of an algorithm is followed by a reference number in brackets it concerns a revised entry and the algorithm referred to in the brackets can be deleted in the relevant volume. Algorithms that have been substituted by revised entries in the same issue are not listed.

0. Mathematical Methods

Orthonormalisation [127] (52/**10**)	65/**11**	**0.0**
Solve system of non-linear equations and minimise sum of squares (damped Taylor's series method) [315] (65/**10**)	1/**11**	**0.1**
Chebyshev solution to an overdetermined system of linear equations [328] (67/**10**)	2/**11**	**0.1**
Roots of polynomials by a root-squaring and resultant routine [340] (201/**10**)	3/**11**	**0.1**
Numerical solution of polynomial equation [30]	20/**11**	**0.1**
Newton algorithms for evaluation of roots with error bounds	22/**11**	**0.1**
Fourth-order multipoint iterative method for solving equations	23/**11**	**0.1**
Complex root finding [365]	45/**11**	**0.1**
Solve finite-dimensional systems of non-linear equations [12]	46/**11**	**0.1**
Resolve a Cramerian linear system by successive projections with orthogonalisation of the residuals	47/**11**	**0.1**
Compute a zero of a differentiable function (iterative bracketing technique)	66/**11**	**0.1**
Evaluate zeros of polynomials (direct Newton method)	67/**11**	**0.1**
Evaluate zeros of polynomials (direct third order method)	68/**11**	**0.1**
Solution of non-linear simultaneous equations [44] (21/**11**)	89/**11**	**0.1**
Solve a system of simultaneous non-linear equations (discretised Newton-like method) [378]	90/**11**	**0.1**
Solve general three term linear systems [51]	91/**11**	**0.1**
Generalised least squares fit by orthogonal polynomials [296] (79/**10**)	48/**11**	**0.2**
Fit data to one exponential [375]	69/**11**	**0.2**
Least squares fit by $f(x) = A \cos(Bx+C)$ [376]	70/**11**	**0.2**
Gaussian quadrature formulas [331] (105/**10**)	4/**11**	**0.3**
Spline interpolation of degree three [40]	26/**11**	**0.3**
Two-dimensional smooth interpolation	28/**11**	**0.3**
Exponential spline interpolation	29/**11**	**0.3**
Smooth curve interpolation	30/**11**	**0.3**
Modified Romberg quadrature [351] (24/**11**)	92/**11**	**0.3**
Filon quadrature [353] (25/**11**)	93/**11**	**0.3**
Interpolation by certain quintic splines [42] (27/**11**)	94/**11**	**0.3**
Simpson quadrature used adaptively-noise killed [379]	95/**11**	**0.3**
Convolution procedure based on the fast Fourier transform [345] (238/**10**)	5/**11**	**0.4**
Numerical inversion of Laplace trasnforms [368]	71/**11**	**0.4**
Determine square-root of positive definite matrix [298] (129/**10**)	8/**11**	**0.6**
Triangular decomposition of a symmetric matrix [AS 6] (132/**10**)	9/**11**	**0.6**
Inversion of a positive-semi-definite symmetric matrix [AS 7] (133/**10**)	10/**11**	**0.6**
Eigenvalues of band symmetric matrices	31/**11**	**0.6**
Balancing a matrix for calculation of eigenvalues and eigenvectors	32/**11**	**0.6**
Find all eigenvalues and eigenvectors of a real general matrix [343] (243/**10**)	72/**11**	**0.6**
QR algorithm for real Hessenberg matrices	73/**11**	**0.6**
Solve complex Eigenproblem (norm reducing Jacobi type method)	74/**11**	**0.6**
Singular value decomposition and least squares solutions	75/**11**	**0.6**
Sort a section of the elements of an array by determining the rank of each element [25] (26/**10**, 6/**11**)	96/**11**	**0.6**
Order the subscripts of an array subsection according to the magnitudes of the elements [26] (27/**10**, 7/**11**)	97/**11**	**0.6**
Compute the permanent function of a real square matrix (2 algorithms) [361] (49/**11**)	98/**11**	**0.6**
In-situ transposition of rectangular matrix [380]	99/**11**	**0.6**

Calculate eigenvalues and eigenvectors of a real symmetric matrix (tridiagonalisation by Householder's method)[384]	100/11	0.6
Simulating multidimensional arrays in one dimension [AS 1] (134/**10**)	11/11	0.8
Minimum iterations algorithm for linear programming [333] (156/**10**)	12/11	0.10
Generate permutations in lexicographic order [202 and 323] (223/**10**)	13/11	0.10
Compute and print minimum spanning tree (Prim's method) [AS 13 and AS 14]	33/11	0.10 (0.12)
The efficient formation of a triangular array with restricted storage for data [AS 20]	34/11	0.10
Find Hamiltonian path in graph	35/11	0.10
Generator of spanning trees [354]	36/11	0.10
Given a subset (called "roots") of the nodes spanned by a directed graph composed of arcs of known length, find for each node in the network the shortest path connecting it to its closest root node [360]	50/11	0.10
Generation of permutations in pseudo-lexicographic order [308] (227/**10**)	51/11	0.10
Ranking an array of numbers [AS 26]	76/11	0.10
Partitions in natural order [371]	77/11	0.10
Compute number of doubly restricted partitions [373]	78/11	0.10
Restricted partition generator [374]	79/11	0.10
Find the integer solution of a linear programming problem with integer coefficients only (Gomory algorithm) [153 and 263A] (146/**10**)	101/11	0.10
Solution of linear programs in 0-1 variables by implicit enumeration [341] (228/**10**, 52/**11**)	102/11	0.10
Combinations of M out of N objects [382]	103/11	0.10
Permutations of a set with repetitions [383]	104/11	0.10
Function minimisation (method of Fletcher and Powell) [251] (163/**10**)	14/11	0.12
Simplex method procedure using LU decomposition [350]	37/11	0.12
Find minimum of function of n variables (direct search method) [178] (161/**10**)	53/11	0.12
Find the minimum of a function (modified Davidon method) [46]	80/11	0.12
Solve an optimum-mix problem [13]	105/11	0.12
1. Probability		
Generate random permutations [362]	54/11	1.3
Generate components of random unit vectors distributed uniformly in solid angle [381]	106/11	1.4
An auxiliary function for distribution integrals [AS 4] (165/**10**, 15/**11**)	107/11	1.9
2. Frequency Distributions		
General random number generator [370]	81/11	2.0
Fortran Tauseworthe pseudorandom number generator	82/11	2.0
Produce two independent random variables each from the standardised normal distribution [267 and 334] (172/**10**)	16/11	2.3
Normal curve integral [304] (174/**10**)	17/11	2.3
Calculate the reciprocal of Mills' ratio [AS 17]	38/11	2.3
Calculate areas under the normal curve [39]	39/11	2.3
Calculate deviate corresponding to a given lower tail area of a standardised Normal distribution [AS 24]	55/11	2.3
Evaluate real and imaginary parts of the complex error function [363]	56/11	2.3
The normal integral [AS 2] (175/**10**)	57/11	2.3
Generator of random numbers satisfying the Poisson distribution [369]	83/11	2.5
3. Sampling Distributions		
The integral of Student's t-distribution [AS 3] (183/**10**)	18/11	3.1
The integral of the non-central t-distribution [AS 5] (184/**10**)	19/11	3.2
The integral of Student's t-distribution (Gentleman & Jenkins' method) [AS 27]	84/11	3.1
t-test probabilities [321] (181/**10**)	85/11	3.1
Student's t-distribution [334] (252/**10**, 86/**11**)	108/11	3.1
4. Estimation		
Maximum likelihood estimation from grouped and censored data [AS 16]	40/11	4.2
5. Hypothesis Testing		
The runs up and down test [AS 29]	109/11	5.2